

## CLAIMS

1. (Previously Presented) A swirl tube separator for separating solids from a gas-solid containing feed comprising:

a tubular housing;

an axial inlet for introducing a gas-solids mixture at a first end of said housing, wherein said axial inlet for introducing the gas-solids mixture is provided with swirl imparting means;

a solids outlet opening at a second end of said housing; and

a co-axial positioned tubular gas outlet conduit placed at an the first end of said housing such that the axial inlet for introducing a gas-solids mixture is positioned in the space between the tubular gas outlet conduit and the wall of the tubular housing,

wherein along the axis of the tubular housing a vortex extender pin is present;

further wherein the solids outlet opening comprises an annular opening about the vortex extender pin. (emphasis added)